clarion

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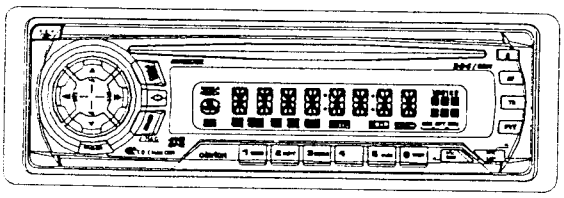
# Service Manual



## RDS-EON/FM-MPX/MW/LW Radio CD combination with CD/MD changer control

Model **DRX5575R**

(PE-2194E-A)

## ■ SPECIFICATIONS

### Radio section

Tuning system: PLL synthesizer tuner
Receiving frequencies:
FM: 87.5 to 108MHz(0.05MHz steps)
MW: 531 to 1629kHz(9kHz steps)
LW: 153 to 279kHz(3kHz steps)

### CD Player section

System: Compact disc digital audio system
Frequency response:
10Hz to 20kHz(±1dB)
Signal to noise ratio:
96dB(1kHz) 1HF-A
Dynamic range: 95dB(1kHz)
Distortion: 0.01%
Wow & flutter: Below measurement limits.

### General

Max power output: 4 × 40W
Power supply voltage:
14.4V DC(10.8 to 15.6V allowable), Negative ground
Power consumption:
Less than 15A
Speaker impedance: 4 Ω (4 Ω to 8 Ω allowable)
Auto antenna rated current:
500mA or less
Weight: Main unit: 1.7kg
Dimensions(mm): Main unit:
178(W)×50(H)×152(D)

※ Specifications and design are subject to change without notice for further improvement.

## ■ NOTE

※ We cannot supply PWB with component parts in principle. When a circuit on PWB has failure, please repair it by component parts base. Parts which are not mentioned in service manual are not supplied.

## ■ COMPONENTS

### PE-2194E-A

| | | |
|---|---|---|
| Main unit | ———— | 1 |
| Mounting bracket | 300-7745-00 | 1 |
| DCP case | 335-6035-02 | 1 |
| Escutcheon(OUT-ES) | 370-5813-00 | 1 |
| Parts bag | ———— | |
| Removal tool | 331-2548-00 | 2 |
| Cord clamp | 335-0833-01 | 1 |
| Screw | 716-0496-01 | 1 |
| Rubber cap | 345-3653-01 | 1 |
| A-lead(for cellular phone) | 850-6681-00 | 1 |

## ■ FEATURES

1. RDS-Pro Receiver with EON, PS, AF, TA, TP, PTY, REG and CT
2. CD-Deck with 1-Bit D/A Converter and 8-Times Oversampling
3. Controller for MD or CD Changer (6/12 Discs)
4. High Power 4×40W Max/2-Channel RCA line Level Output
5. Fully Detachable Control Panel with Protective Case
6. Ready for infrared Remote Control (RCB-130-10 0)

## ■ To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1.Use specified parts.

The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.

The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability(PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.

2.Place the parts and wiring back in their original positions after replacement or re-wiring.

For proper circuit construction, use of insulationtubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.

If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.

3.Check for safety after repair.

Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary problems around the repaired spots.

If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

4.Caution in removal and making wiring connection to the parts for the automobile.

Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

5.Cautions regarding chips.

Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.

6.Cautions in handing flexible PWB

Before working with a soldering iron, make sure that the iron tip temperature is around 270°C. Take care not to apply the iron tip repeatedly (more than three times) to the same patterns. Also take care not to apply the tip with force.

7.Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

8.Cautions in checking that the optical pickup lights up.

The laser is focused on the disc reflection surface through the lens of the optical pickup. When checking that the laser optical diode lights up, keep your eyes more than 30cms away from the lens. Prolonged viewing of the laser within 30cms may damage your eyesight.

9.Cautions in handing the optical pickup

The laser diode of the optical pickup can be damaged by electrostatic charge caused by your clothes and body. Make sure to avoid electrostatic charges on your clothes or body, or discharge static electricity before handling the optical pickup.

9-1.Laser diode

The laser diode terminals are shorted for transportation in order to prevent electrostatic damage. After replacement, open the shorted circuit. When removing the pickup from the mechanism, short the terminals by soldering them to prevent this damage.

9-2.Actuator

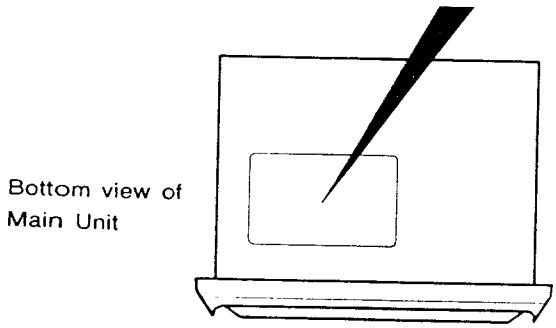
The actuator has a powerful magnetic circuit. If a magnetic material is put close to it, its characteristics will change. Ensure that no foreign substances enter through the ventilation slots in the cover.

9-3.Cleaning the lens

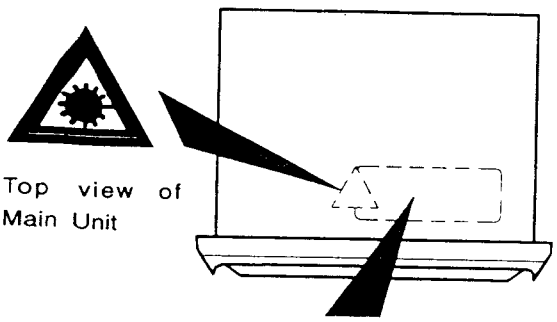
Dust on the optical lens affects performance. To clean the lens, apply a small amount of isopropol-alcohol to lens paper and wipe the lens gently.

## ■ CAUTIONS

This appliance contains a laser system and is classified as a "CLASS 1 LASER PRODUST". To use this model properly, read this Owner's Manual carefully and keep this manual for your future reference. In case of any trouble with this player, please contact your nearest "AUTHORIZED service station". To prevent direct exposure to the laser beam, do not try to open the enclosure.



Bottom view of Main Unit



Top view of Main Unit

| | |
|---|---|
| CAUTION | -INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM. |
| VORSICHT! | UNSICHTBARE LASERSTRAHLUNG TRITT AUS. WENN DECKEL GEÖFFNET UND WENN SICHERHEITSVERRIEQELUNG ÜBERBRÜCKT IST. NICHT DEM STRAHL AUSSETZEN! |
| VARNING | -OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRR ÄR URKOPPLAD. STRÅLEN ÄR FARLIG. |
| ADVARSEL | -USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING. |

## ■ NOTES OF ISO CONNECTOR

1.For VW and Audi vehicles, change the position of fuse installation as shown on the diagram.(Figure 1)

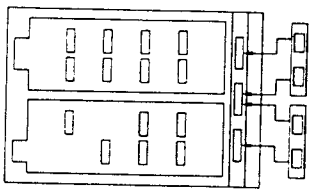
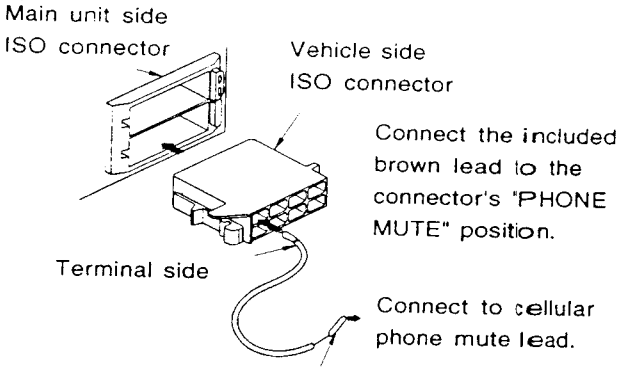



Figure 1

2.The lead include with the unit must be connected to the specified position of the vehicle's ISO connector in order to use the "triggered audio mute for cellular telephones" function.(Figure 2)


Main unit side ISO connector
Vehicle side ISO connector
Connect the included brown lead to the connector's "PHONE MUTE" position.
Terminal side
Connect to cellular phone mute lead.

Fasten using insulating tape, etc., to prevent short-circuits at the connection.

Figure 2

## ■ TROUBLESHOOTING

| Problem | Cause | Measure |
|---|---|---|
| Power does not turn on. (No sound is produced.) | Fuse is blown. | Replace with a fuse of the same amperage. If the fuse blows again, consult your store of purchase. |
| | Incorrect wiring. | Consult your store of purchase. |
| Compact disc cannot be loaded. | Another compact disc is already loaded. | Eject the compact disc before loading the new one. |
| Sound skips or is noisy. | Compact disc is dirty. | Clean the compact disc with a soft cloth. |
| | Compact disc is heavily scratched or warped. | Replace with a compact disc with no scrathes. |
| Sound is bad directly after power is turned on. | Water droplets may form on the internal lens when the car is parked in a humid place. | Let dry for about 1 hour with the power on. |
| Display is not accurate. | DCP or main unit connectors are dirty. | Wipe the dirt off with a soft cloth moistened with cleaning alcohol. |

## ■ ERROR DISPLAYS

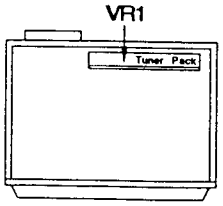
If an error occurs, one of the following displays is displayed.
Take the measures described below to eliminate the problem.

| Error Display | Cause | Measure |
|---|---|---|
| CD ER2 | A CD is caught inside the CD deck and is not ejected. | This is a failure of CD deck's mechanism and consult your store of purchase. |
| CD ER3 | A CD cannot be played due to scratches, etc. | Replace with a non-scrathed, non-warped disc. |
| CD ER6 | A CD is loaded upside-down inside the CD deck and does not play. | Eject the disc then reload it properly. |
| CD/MDCH ER2 | Disc inside the CD/MD changer is not loaded. | This is a failure of CD/MD changer's mechanism and consult your store of purchase. |
| CD/MDCH ER3 | A CD/MD inside the CD/MD changer cannot be played due to scratches, etc. | Replace with a non-scratched, non-warped disc. |
| CD/MDCH ER6 | A CD/MD inside the CD/MD changer cannot be played because it is loaded upside-down. | Eject the disc then reload it properly. |

If an error display other than the ones described above appears, press the reset button. If the problem persists, turn off the power and consult your store of purchase.

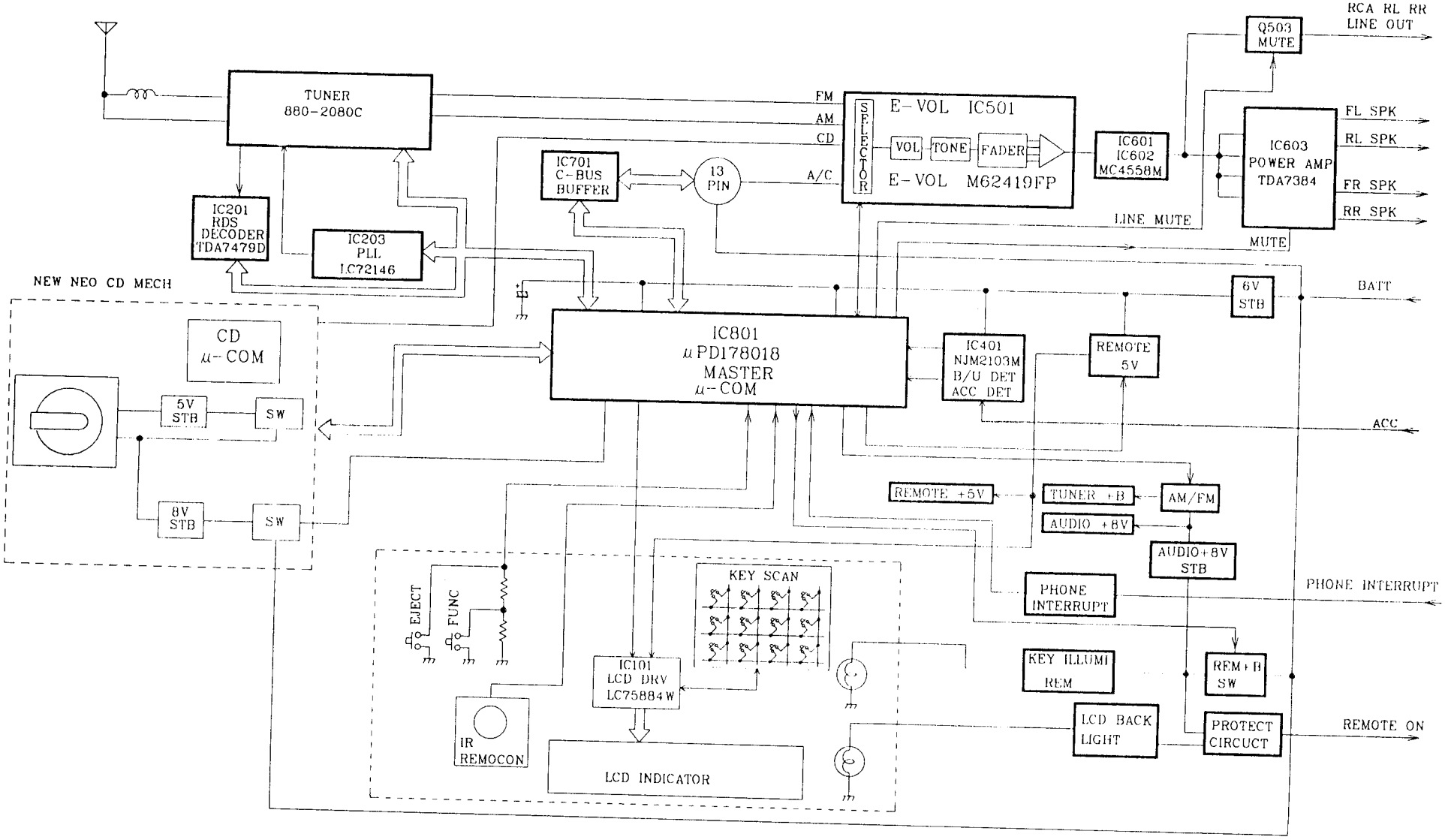
## ■ ADJUSTMENTS

| Item | Procedure | Measuring instrument |
|---|---|---|
| S-meter | 1.Input the 98.1MHz/30dB $\mu$ (400Hz-MOD 30%)signal.<br>2.Turn on the power switch. And press the AF button and CH6 button at the same time.(TEST MODE)<br>3.Adjust the reading of LCD indicator to [30----00] (3.0V$\pm$0.2V)by VR1. | SG |



Top side of main unit

# ■ BLOCK DIAGRAM



# ■ EXPLANATION OF IC:

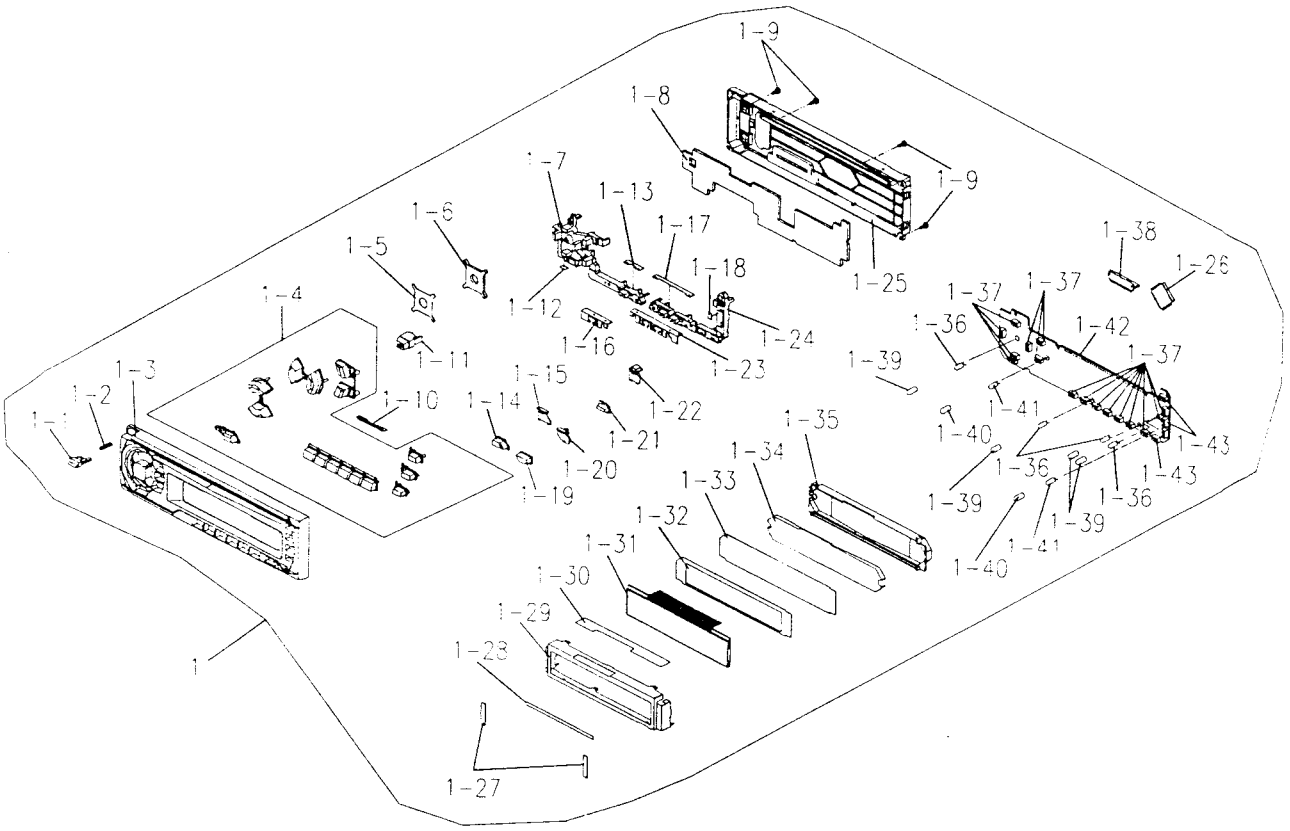
## ■ UPD178018GC-522-3B9 052-1308-10 MASTER MICRO COMPUTER

1.Outward Form : 80 pins QFP
2.Terminal Description

pin 1 : CD TEMPC : IN : When the voltage on the terminal turns below 1/2 VDD, it stop the mechanism as it judges the CD pickup is overheated.
pin 2 : KEY A/D : IN : Terminal for A/D convert connect GND detects, DCP/FNC/EJE KEY
pin 3 : RDS S-METER : IN : RDS S-METER voltage detection.
pin 4 : RDS NOISE : IN : RDS noise detection.
pin 5 : NC : IN : GND
pin 6 : RDS DISCHGE : O : RDS output terminal for discharging the voltage detected by RDS Noise.
pin 7 : LCD SI : IN : Serial data communication line with driver.
pin 8 : LCD SO : O : Serial data communication line with driver.
pin 9 : LCD SCK : O : Serial data communication line with driver.
pin 10 : LCD CE : O : Serial data communication line with driver.
pin 11 : C-BUS SRQ : IN : C-BUS data communication line.
pin 12 : C-BUS SI : IN : C-BUS data communication line.
pin 13 : C-BUS SO : O : C-BUS data communication line.
pin 14 : C-BUS SCK : O : C-BUS data communication line.
pin 15 : $\overline{\text{AM ON}}$ : O : Output terminal for AM ON signal
pin 16 : $\overline{\text{FM ON}}$ : O : Output terminal for FM ON signal
pin 17 : $\overline{\text{5V REM}}$ : O : Outputs signal for 5V power ON around micro computer.
pin 18 : +B REM : O : Outputs Hi by power ON. Supplying +B power
pin 19 : SYS MUTE : O : Output terminal for system mute signal.
pin 20 : SOFT MUTE : O : Output terminal for switching an SOFT MUTE constant.
pin 21 : GND : — : GND
pin 22 : VDD : — : Power supply terminal.
pin 23 : AM Local : O : Switches AM DX/LO Hi when local.
pin 24 : REM OUT SAVE : O : Output terminal for remote protection circuit latch release.
pin 25 : RDS MUTE : O : RDS output terminal for noise reduction during follow-up motion.
pin 26 : NC : O : NC
pin 27 : IF REQ : O : FM diversity output terminal .Outputs Hi in RADIO mode. FM, diver ON; outputs low in diver OFF.
pin 28 : AM IFC : IN : AM IF count signal input terminal.
pin 29 : FM IFC : IN : FM IF count signal input terminal.
pin 30 : PLL VDD : — : PLL power supply terminal.
pin 31 : FM IN : IN : FM local oscillator input terminal.
pin 32 : AM IN : IN : AM local oscillator input terminal.
pin 33 : PLL GND : — : GND
pin 34 : E00 : O : NC
pin 35 : E01 : O : NC
pin 36 : TEST : — :
pin 37 : AM SD : IN : Detection terminal for AM SD judges SD ON by Hi.
pin 38 : FM SD : IN : Detection terminal for FM SD judges SD ON by Hi.
pin 39 : $\overline{\text{FM ST}}$ : IN : Detecting terminal for FM Stereo indicate.
pin 40 : PLL DIT : IN : PLL IC control line.
pin 41 : PLL SCK : O : PLL IC control line.
pin 42 : PLL DO : O : PLL IC control line.
pin 43 : PLL CE : O : PLL IC control line.
pin 44 : CD 8V REM : O : 8V outputs CD power on signal.
pin 45 : RDS +B REM : O : Spare terminal for RDS detector power ON.
pin 46 : BLINK LED : O : LED flashing output signal.
pin 47 : FM Local : O : Switches FM DX/Lo Hi when local.
pin 48 : CD 5V REM : O : 5V power control terminal for CD module.
pin 49 : EVOL CLK : O : Serial data communication line to electronic volume IC.
pin 50 : EVOL DATA : O : Serial data communication line to electronic volume IC.
pin 51 : LD ON : O : Outputs LD ON signal.
pin 52 : CHAK SW : IN : "L" input when disc chucking is completed.
pin 53 : MCW : O : CD module loading motor control terminal.
pin 54 : MCCW : O : CD module loading motor control terminal.
pin 55 : C : IN : CD module photo sensor input terminal.
pin 56 : B : IN : CD module photo sensor input terminal.
pin 57 : A : IN : CD module photo sensor input terminal.
pin 58 : SQSO : IN : Input terminal of SUB-Q data from CD module CXD 2545Q
pin 59 : SQCK : O : Clock output terminal reading SUB-Q from CD module CXD 2545Q.
pin 60 : SENSE : IN : Input terminal to output CD IC inside condition from CD module CXD 2545Q.
pin 61 : $\overline{\text{XRST}}$ : O : Reset output terminal for CD module CXD 2545Q.
pin 62 : CLK : O : Clock output terminal to transfer serial data for CD module CXD 2545Q.
pin 63 : $\overline{\text{XLAT}}$ : O : latch output terminal for CD module CXD 2545Q.
pin 64 : DATA : O : Serial data output terminal to control CD module CXD 2545Q.
pin 65 : SCLK : O : Clock output terminal to read SENS data from CD module CXD 2545Q.
pin 66 : RDS DATA : O : RDS data input
pin 67 : RDS CLK : O : RDS clock input
pin 68 : $\overline{\text{B/U DET}}$ : IN : When this terminal turns low, micro computer detects the B/U OFF and turns micro computer to STOP mode. Stopping oscillation.
pin 69 : ACC DET : IN : ON/OFF detection terminal for ACC power supply.
pin 70 : $\overline{\text{REMOCON}}$ : IN : IR REMOCON input.
pin 71 : $\overline{\text{KEY INT}}$ : IN : KEY insertion input terminal low when EJECT KEY or FNC (POWER) KEY pushed When this terminal turns low, KEY A/D terminal detects the KEY pushed.
pin 72 : SCOR : IN : Input terminal of signal from subcord sink SO/SI output terminal for CD module CXD 2545Q.
pin 73 : PHONE INT : IN : Input terminal for phone interrupt/cellular.
pin 74 : REG CPU : — : Regulator terminal for CPU power supply. Connected to pass Con against noise.
pin 75 : GND : — : GND
pin 76 : X2 : — : Connecting terminal for oscillating crystal for main system clock.
pin 77 : X1 : IN : Connecting terminal for oscillating crystal for main system clock.
pin 78 : REQ OSC : — : Power supply regulator terminal for oscillator. Connected to pass Con against noise.
pin 79 : VDD : — : Power supply terminal.
pin 80 : $\overline{\text{RE SET}}$ : IN : Micro computer will stop by turning this terminal to "LOW".

## ■ EXPLODED VIEW • PARTS LIST:

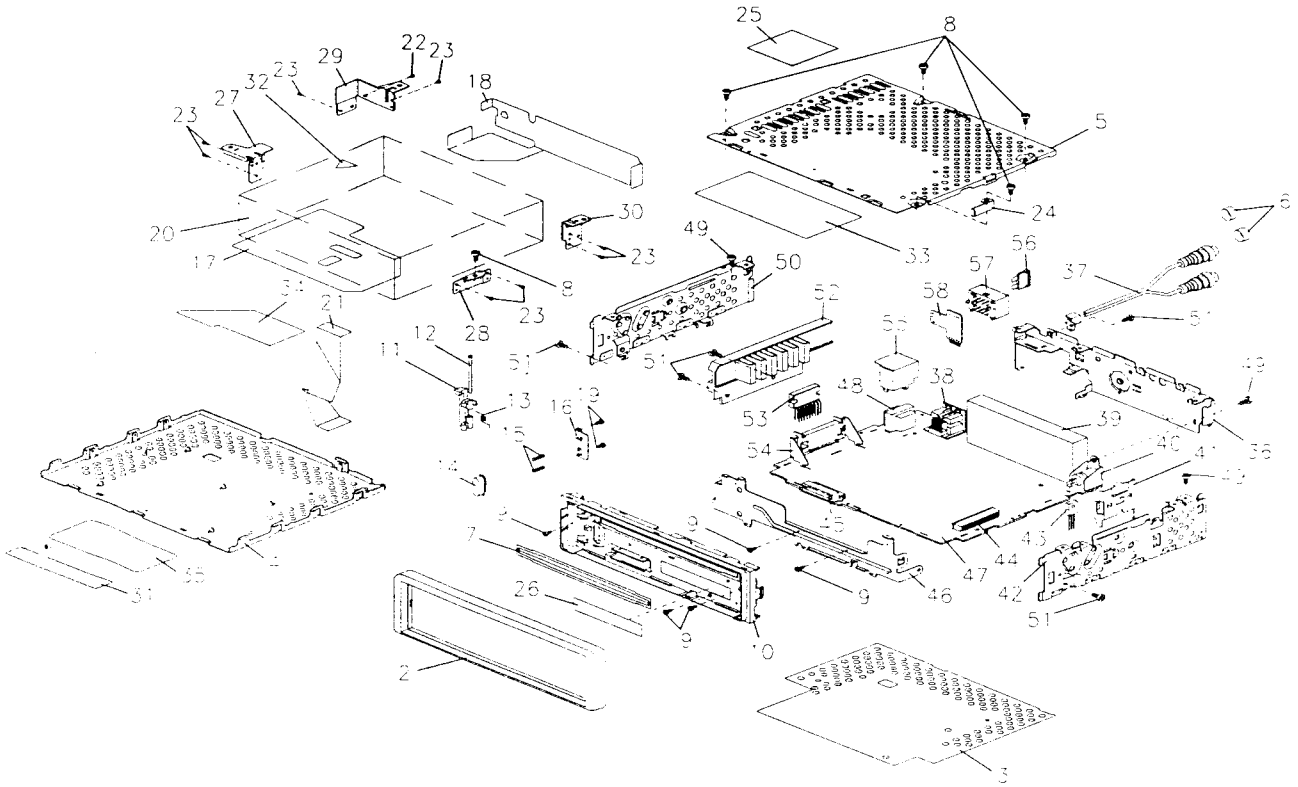
DCP Section




| NO. | PARTS NO. | DESCRIPTION | Q'TY |
|---|---|---|---|
| 1 | DCP-162-700 | DCP ASSY | 1 |
| 1-1 | 382-5325-00 | BUTTON | 1 |
| 1-2 | 750-3326-00 | SPRING | 1 |
| 1-3 | 370-5803-00 | ESCUTCHEON | 1 |
| 1-4 | 947-0491-02 | BUTTON ASSY | 1 |
| 1-5 | 347-6063-00 | SHADE | 1 |
| 1-6 | 345-8340-00 | SPONGE | 1 |
| 1-7 | 335-5966-00 | ILLUMI. PLATE(L) | 1 |
| 1-8 | 345-8341-00 | SPONGE | 1 |
| 1-9 | 716-1721-00 | P-TIGHT-SCREW | 4 |
| 1-10 | 335-5964-00 | ILLUMI. PLATE(TAPE DOOR) | 1 |
| 1-11 | 335-5960-00 | IR-FILTER | 1 |
| 1-12 | 347-6065-00 | SHADE | 1 |
| 1-13 | 347-5842-00 | DOUBLE FACE(L) | 1 |
| 1-14 | 382-5327-00 | BUTTON | 1 |
| 1-15 | 335-5962-00 | BUTTON HOLDER | 1 |
| 1-16 | 347-5839-01 | FILM HOLDER(L) | 1 |
| 1-17 | 347-5843-00 | DOUBLE FACE(R) | 1 |
| 1-18 | 347-6064-00 | SHADE | 1 |
| 1-19 | 382-5326-00 | BUTTON | 1 |
| 1-20 | 335-5961-00 | BUTTON HOLDER | 1 |
| 1-21 | 382-5328-00 | BUTTON | 1 |
| 1-22 | 335-5963-00 | BUTTON HOLDER | 1 |

| NO. | PARTS NO. | DESCRIPTION | Q'TY |
|---|---|---|---|
| 1-23 | 347-5840-01 | FILM HOLDER(R) | 1 |
| 1-24 | 335-5965-00 | ILLUMI. PLATE(R) | 1 |
| 1-25 | 335-5959-00 | REAR-CVR | 1 |
| 1-26 | 051-6013-00 | IC | 1 |
| 1-27 | 347-5846-00 | SHADE | 2 |
| 1-28 | 347-5841-01 | SPACER | 1 |
| 1-29 | 331-2602-00 | LCD COVER | 1 |
| 1-30 | 347-5932-00 | INSULATOR | 1 |
| 1-31 | 379-1149-41 | INDICATOR | 1 |
| 1-32 | 347-5845-00 | SHADE | 1 |
| 1-33 | 347-5844-00 | FILM | 1 |
| 1-34 | 335-5967-00 | LCD ILLUMI. | 1 |
| 1-35 | 335-5969-00 | LCD HOLDER | 1 |
| 1-36 | 017-0410-00 | PILOT LAMP | 4 |
| 1-37 | 013-6305-50 | SWITCH | 16 |
| 1-38 | 076-0615-00 | PLUG | 1 |
| 1-39 | 345-4441-63 | LAMP CAP | 4 |
| 1-40 | 345-4441-81 | LAMP CAP | 2 |
| 1-41 | 017-0441-00 | PILOT LAMP | 2 |
| 1-42 | 039-1399-00 | SW-PWB (WITHOUT COMPONENT) | 1 |
| 1-43 | 013-6001-50 | TACT SWITCH | 3 |

Main Section



| NO. | PARTS NO. | DESCRIPTION | Q'TY |
|---|---|---|---|
| 2 | 370-5813-00 | OUTER-ESCUTCHEON | 1 |
| 3 | 347-5918-10 | INSULATOR | 1 |
| 4 | 304-0462-00 | LOWER COVER | 1 |
| 5 | 303-0473-00 | UPPER COVER | 1 |
| 6 | 345-3799-00 | RUBBER CAP | 2 |
| 7 | 346-0097-00 | LEATHER SHEET | 1 |
| 8 | 731-3006-80 | TAP-TIGHT SCREW | 5 |
| 9 | 780-2004-01 | SCREW | 5 |
| 10 | 370-5804-00 | INNER-ESCUTCHEON | 1 |
| 11 | 335-5968-00 | HOOK | 1 |
| 12 | 341-1627-00 | SHAFT | 1 |
| 13 | 750-3219-00 | SPRING | 1 |
| 14 | 382-5329-00 | BUTTON | 1 |
| 15 | 750-3173-00 | SPRING | 2 |
| 16 | 331-2603-00 | HOOK PLATE | 1 |
| 17 | 347-5916-11 | INSULATOR | 1 |
| 18 | 347-5995-00 | INSULATOR | 1 |
| 19 | 716-0778-00 | WAVE SCREW | 2 |
| 20 | 929-0065-85 | CD-MECHANISM | 1 |
| 21 | 816-2391-00 | FLAT CABLE | 1 |
| 22 | 716-1857-00 | SCREW | 1 |
| 23 | 716-0717-10 | STEEL SCREW | 8 |
| 24 | 331-2744-00 | STOPPER | 1 |
| 25 | 291-0083-00 | STICKER | 1 |
| 26 | 291-0067-00 | STICKER | 1 |
| 27 | 331-2542-00 | CD-SUB-BRKT(F/L) | 1 |
| 28 | 331-2543-00 | CD-SUB-BRKT(F/R) | 1 |
| 29 | 331-2544-00 | CD-SUB-BRKT(R/L) | 1 |
| 30 | 331-2545-00 | CD-SUB-BRKT(R/R) | 1 |
| 31 | 290-7717-00 | LABEL | 1 |

| NO. | PARTS NO. | DESCRIPTION | Q'TY |
|---|---|---|---|
| 32 | 285-1340-00 | GUIDE LABEL | 1 |
| 33 | 285-1426-00 | GUIDE LABEL | 1 |
| 34 | 347-6074-00 | INSULATOR | 1 |
| 35 | 286-9200-00 | SET PLATE | 1 |
| 36 | 307-0627-00 | REAR COVER | 1 |
| 37 | 855-5426-80 | RCA PIN OCRD | 1 |
| 38 | 074-1126-10 | OUTLET SOCKET | 1 |
| 39 | 880-2080C | TUNER | 1 |
| 40 | 092-9000-41 | ANT RECEPT | 1 |
| 41 | 313-1747-00 | HEAT SINK | 1 |
| 42 | 305-0277-00 | SIDE-CVR(R) | 1 |
| 43 | 102-1846-50 | TRANSISTOR | 1 |
| 44 | 074-0986-26 | OUTLET SOCKET | 1 |
| 45 | 074-1217-00 | OUTLET SOCKET | 1 |
| 46 | 309-0722-00 | FRONT PLATE | 1 |
| 47 | 039-1398-00 | MAIN PWB (WITHOUT COMPONENT) | 1 |
| 48 | 009-9006-20 | CHOKE | 1 |
| 49 | 714-3006-81 | MACHINE SCREW | 3 |
| 50 | 305-0276-00 | SIDE-CVR(L) | 1 |
| 51 | 731-3006-80 | TAP-TIGHT SCREW | 5 |
| 52 | 313-1746-00 | HEAT SINK | 1 |
| 53 | 051-2029-00 | IC | 1 |
| 54 | 331-2547-00 | IC HOLDER | 1 |
| 55 | 331-2549-00 | SHIELD CASE | 1 |
| 56 | 060-0057-57 | AUTO-FUSE (15A) | 1 |
| 57 | 074-1115-00 | OUTLET SOCKET | 1 |
| 58 | 039-1400-00 | PWB (WITHOUT COMPONENT) | 1 |

## ■ ELECTRICAL PARTS LIST:

### Main PWB (B2) section

| REF No. | PART No. | DESCRIPTION |
|---|---|---|
| IC 201 | 051-1819-50 | TDA7479D |
| IC 202 | 051-3028-90 | MC4558ID |
| IC 203 | 051-6201-00 | LC72146M |
| IC 401 | 051-5416-78 | NJM2103M |
| IC 501 | 051-5008-00 | M62419FP |
| IC 601 | 051-3028-90 | MC4558ID |
| IC 602 | 051-3028-90 | MC4558ID |
| IC 603 | 051-2029-00 | TDA7384 |
| IC 701 | 051-7400-78 | HD74LS07FP |
| IC 801 | 052-1308-10 | uPD178018 |
| Q 101 | 108-0669-00 | 2SK669 |
| Q 102 | 100-1548-00 | 2SA1548 |
| Q 103 | 100-1548-00 | 2SA1548 |
| Q 201 | 125-0024-02 | MUN2111T1 |
| Q 202 | 103-1306-00 | 2SD1306 |
| Q 203 | 125-0024-03 | MUN2112T1 |
| Q 204 | 125-2031-03 | MUN2212T1 |
| Q 205 | 125-2031-02 | MUN2211T1 |
| Q 301 | 101-1237-00 | 2SB1237 |
| Q 302 | 102-1846-50 | 2SC1846 |
| Q 303 | 125-2031-02 | MUN2211T1 |
| Q 304 | 125-0024-02 | MUN2111T1 |
| Q 305 | 103-1858-00 | 2SD1858 |
| Q 306 | 103-1858-00 | 2SD1858 |
| Q 307 | 103-1858-00 | 2SD1858 |
| Q 308 | 103-1858-00 | 2SD1858 |
| Q 309 | 102-3420-00 | 2SC3420 |
| Q 309 | 101-1243-00 | 2SB1243 |
| Q 310 | 125-2031-02 | MUN2211T1 |
| Q 311 | 100-1162-00 | 2SA1162 |
| Q 312 | 101-1243-00 | 2SB1243 |
| Q 313 | 125-2031-02 | MUN2211T1 |
| Q 314 | 125-2031-02 | MUN2211T1 |
| Q 315 | 125-2031-02 | MUN2211T1 |
| Q 316 | 103-1858-00 | 2SD1858 |
| Q 317 | 103-1858-00 | 2SD1858 |
| Q 318 | 125-0024-02 | MUN2111T1 |
| Q 320 | 125-0024-02 | MUN2111T1 |
| Q 321 | 125-2031-02 | MUN2211T1 |
| Q 323 | 108-0241-50 | 2SK241 |
| Q 401 | 125-2031-03 | MUN2212T1 |
| Q 501 | 103-1306-00 | 2SD1306 |
| Q 502 | 103-1306-00 | 2SD1306 |
| Q 503 | 125-0024-03 | MUN2112T1 |
| Q 601 | 125-2031-02 | MUN2211T1 |
| Q 701 | 125-2031-02 | MUN2211T1 |
| Q 901 | 100-1162-00 | 2SA1162 |
| D 201 | 001-0516-00 | MA111 |
| D 202 | 001-0516-00 | MA111 |
| D 301 | 001-0528-32 | MA8056M |
| D 302 | 001-0516-00 | MA111 |
| D 303 | 001-0516-00 | MA111 |

| REF No. | PART No. | DESCRIPTION |
|---|---|---|
| D 303 | 001-0466-00 | S5688B |
| D 304 | 001-0528-47 | MA8091M |
| D 305 | 001-0376-48 | MTZ9.1JC |
| D 306 | 001-0516-00 | MA111 |
| D 307 | 001-0516-00 | MA111 |
| D 309 | 001-0466-00 | S5688B |
| D 310 | 001-0528-32 | MA8056M |
| D 310 | 001-0466-00 | S5688B |
| D 311 | 001-0528-45 | MA8082H |
| D 401 | 001-0330-00 | 1SS119 |
| D 501 | 001-0528-23 | MA8043M |
| D 601 | 001-0592-00 | RM4Z |
| D 602 | 001-0466-00 | S5688B |
| D 603 | 001-0466-00 | S5688B |
| D 604 | 001-0466-00 | S5688B |
| D 605 | 001-0466-00 | S5688B |
| D 606 | 001-0466-00 | S5688B |
| D 607 | 001-0466-00 | S5688B |
| D 608 | 001-0466-00 | S5688B |
| D 609 | 001-0466-00 | S5688B |
| D 610 | 001-0516-00 | MA111 |
| D 611 | 001-0516-00 | MA111 |
| D 612 | 001-0516-00 | MA111 |
| D 701 | 001-0516-00 | MA111 |
| D 702 | 001-0516-00 | MA111 |
| D 801 | 001-0516-00 | MA111 |
| D 901 | 001-0516-00 | MA111 |
| D 801 | 001-7030-00 | NSPB310A |
| L 101 | 010-2047-67 | 5.6 μH |
| L 102 | 010-2047-67 | 5.6 μH |
| L 201 | 010-2047-83 | 120 μH |
| L 202 | 010-2230-10 | 1 μH |
| L 301 | 010-2047-83 | 120 μH |
| L 302 | 010-2047-83 | 120 μH |
| L 303 | 010-2047-74 | 22 μH |
| L 601 | 009-9006-20 | CHOKE |
| L 801 | 010-2047-83 | 120 μH |
| X 201 | 061-3013-00 | 4.332MHz |
| X 202 | 061-1066-00 | 7.2MHz |
| X 801 | 060-1023-00 | 4.5MHz |
| C 101 | 176-1801-00 | 50V 18PF |
| C 102 | 178-1032-78 | 25V 0.01 μF |
| C 103 | 178-1032-78 | 25V 0.01 μF |
| C 104 | 183-1073-22 | 10V 100 μF |
| C 105 | 178-1022-78 | 50V 1000PF |
| C 106 | 163-1053-60 | 50V 1 μF |
| C 107 | 176-1011-00 | 50V 100PF |
| C 108 | 178-1032-78 | 25V 0.01 μF |
| C 109 | 178-2732-78 | 25V 0.027 μF |
| C 110 | 178-2732-78 | 25V 0.027 μF |
| C 111 | 178-1522-78 | 50V 1500PF |
| C 112 | 183-1073-22 | 10V 100 μF |

| REF No. | PART No. | DESCRIPTION |
|---|---|---|
| C 113 | 178-1032-78 | 25V 0.01 μF |
| C 114 | 178-6822-78 | 50V 6800PF |
| C 115 | 178-1032-78 | 25V 0.01 μF |
| C 116 | 178-1032-78 | 25V 0.01 μF |
| C 117 | 178-1032-78 | 25V 0.01 μF |
| C 118 | 176-1011-00 | 50V 100PF |
| C 118 | 178-8222-78 | 50V 8200PF |
| C 119 | 178-1222-78 | 50V 1200PF |
| C 120 | 178-4732-78 | 25V 0.047 μF |
| C 201 | 176-3311-00 | 50V 330PF |
| C 202 | 176-3311-00 | 50V 330PF |
| C 203 | 176-8201-00 | 50V 82PF |
| C 204 | 176-4701-00 | 50V 47PF |
| C 205 | 178-1042-78 | 25V 0.1 μF |
| C 206 | 163-2253-60 | 50V 2.2 μF |
| C 207 | 163-1063-30 | 16V 10 μF |
| C 208 | 176-5611-00 | 50V 560PF |
| C 209 | 176-5611-00 | 50V 560PF |
| C 210 | 176-5611-00 | 50V 560PF |
| C 211 | 178-2232-78 | 25V 0.022 μF |
| C 212 | 178-2232-78 | 25V 0.022 μF |
| C 213 | 178-1032-78 | 25V 0.01 μF |
| C 214 | 176-3311-00 | 50V 330PF |
| C 215 | 178-1042-78 | 25V 0.1 μF |
| C 216 | 163-3343-60 | 50V 0.33 μF |
| C 217 | 176-1201-00 | 50V 12PF |
| C 218 | 176-1201-00 | 50V 12PF |
| C 219 | 163-2253-60 | 50V 2.2 μF |
| C 220 | 176-1011-00 | 50V 100PF |
| C 221 | 176-1011-00 | 50V 100PF |
| C 222 | 176-1011-00 | 50V 100PF |
| C 223 | 176-1011-00 | 50V 100PF |
| C 224 | 178-1032-78 | 25V 0.01 μF |
| C 225 | 183-4763-32 | 16V 47 μF |
| C 226 | 178-1042-78 | 25V 0.1 μF |
| C 302 | 183-1073-22 | 10V 100 μF |
| C 303 | 178-1032-78 | 25V 0.01 μF |
| C 304 | 183-1063-52 | 35V 10 μF |
| C 305 | 178-1032-78 | 25V 0.01 μF |
| C 306 | 183-4763-32 | 16V 47 μF |
| C 307 | 163-1063-30 | 16V 10 μF |
| C 308 | 163-1063-30 | 16V 10 μF |
| C 309 | 178-2232-78 | 25V 0.022 μF |
| C 310 | 163-1063-30 | 16V 10 μF |
| C 311 | 178-2232-78 | 25V 0.022 μF |
| C 401 | 171-1023-06 | 25V 1000PF |
| C 402 | 178-2242-78 | 25V 0.22 μF |
| C 403 | 178-1022-78 | 50V 1000PF |
| C 404 | 178-4732-78 | 25V 0.047 μF |
| C 405 | 163-1053-60 | 50V 1 μF |
| C 501 | 163-1063-30 | 16V 10 μF |
| C 502 | 163-2253-60 | 50V 2.2 μF |

| REF No. | PART No. | DESCRIPTION |
|---|---|---|
| C 503 | 163-3343-60 | 50V 0.33 μF |
| C 504 | 163-2253-60 | 50V 2.2 μF |
| C 505 | 163-2253-60 | 50V 2.2 μF |
| C 506 | 163-3343-60 | 50V 0.33 μF |
| C 507 | 163-2253-60 | 50V 2.2 μF |
| C 508 | 163-1063-30 | 16V 10 μF |
| C 509 | 176-5601-00 | 50V 56PF |
| C 510 | 176-1511-00 | 50V 150PF |
| C 511 | 163-4753-50 | 35V 4.7 μF |
| C 512 | 178-8232-78 | 25V 0.082 μF |
| C 513 | 163-2253-60 | 50V 2.2 μF |
| C 514 | 163-2263-10 | 6.3V 22 μF |
| C 515 | 178-5632-78 | 25V 0.056 μF |
| C 516 | 178-5622-78 | 50V 5600PF |
| C 517 | 178-5622-78 | 50V 5600PF |
| C 518 | 176-1511-00 | 50V 150PF |
| C 518 | 163-1063-30 | 16V 10 μF |
| C 519 | 178-8232-78 | 25V 0.082 μF |
| C 521 | 176-5601-00 | 50V 56PF |
| C 522 | 163-4753-50 | 35V 4.7 μF |
| C 523 | 163-2253-60 | 50V 2.2 μF |
| C 524 | 163-2263-10 | 6.3V 22 μF |
| C 525 | 178-5632-78 | 25V 0.056 μF |
| C 526 | 178-5622-78 | 50V 5600PF |
| C 527 | 178-5622-78 | 50V 5600PF |
| C 528 | 163-1063-30 | 16V 10 μF |
| C 529 | 183-4763-32 | 16V 47 μF |
| C 530 | 183-1073-22 | 10V 100 μF |
| C 531 | 163-1063-30 | 16V 10 μF |
| C 532 | 163-1063-30 | 16V 10 μF |
| C 533 | 178-4732-78 | 25V 0.047 μF |
| C 602 | 172-1041-10 | 50V 0.1 μF |
| C 603 | 042-0447-00 | 16V 2200 μF |
| C 604 | 178-4742-78 | 25V 0.47 μF |
| C 605 | 183-4763-32 | 16V 47 μF |
| C 606 | 163-1063-30 | 16V 10 μF |
| C 610 | 176-2201-00 | 50V 22PF |
| C 611 | 176-2201-00 | 50V 22PF |
| C 612 | 176-2201-00 | 50V 22PF |
| C 613 | 176-2201-00 | 50V 22PF |
| C 614 | 163-2243-60 | 50V 0.22 μF |
| C 615 | 163-2243-60 | 50V 0.22 μF |
| C 616 | 163-2243-60 | 50V 0.22 μF |
| C 617 | 163-2243-60 | 50V 0.22 μF |
| C 618 | 163-1063-30 | 16V 10 μF |
| C 701 | 178-4732-78 | 25V 0.047 μF |
| C 801 | 178-4732-78 | 25V 0.047 μF |
| C 802 | 178-4732-78 | 25V 0.047 μF |
| C 803 | 178-1032-78 | 25V 0.01 μF |
| C 804 | 183-4763-32 | 16V 47 μF |

| REF No. | PART No. | DESCRIPTION |
|---|---|---|
| C 805 | 178-1032-78 | 25V 0.01 μF |
| C 806 | 178-1032-78 | 25V 0.01 μF |
| C 807 | 176-2201-00 | 50V 22PF |
| C 808 | 183-1073-22 | 10V 100 μF |
| C 809 | 178-1032-78 | 25V 0.01 μF |
| C 810 | 178-1022-78 | 50V 1000PF |
| C 811 | 178-1022-78 | 50V 1000PF |
| C 812 | 178-1022-78 | 50V 1000PF |
| C 813 | 178-1022-78 | 50V 1000PF |
| C 814 | 178-4742-78 | 25V 0.47 μF |
| R 101 | 117-7531-10 | 1/10W 75KΩ |
| R 102 | 117-1831-10 | 1/10W 18KΩ |
| R 103 | 117-1021-10 | 1/10W 1KΩ |
| R 104 | 117-5631-10 | 1/10W 56KΩ |
| R 105 | 117-1231-10 | 1/10W 12KΩ |
| R 106 | 117-1021-10 | 1/10W 1KΩ |
| R 107 | 117-2231-10 | 1/10W 22KΩ |
| R 108 | 111-3311-91 | 1/4WSS 330Ω |
| R 109 | 117-2241-10 | 1/10W 220KΩ |
| R 110 | 117-1031-10 | 1/10W 10KΩ |
| R 111 | 111-2221-91 | 1/4WSS 2.2KΩ |
| R 112 | 111-4721-91 | 1/4WSS 4.7KΩ |
| R 113 | 117-1031-10 | 1/10W 10KΩ |
| R 114 | 117-1031-10 | 1/10W 10KΩ |
| R 115 | 117-1021-10 | 1/10W 1KΩ |
| R 116 | 117-1021-10 | 1/10W 1KΩ |
| R 117 | 117-1231-10 | 1/10W 12KΩ |
| R 118 | 117-2711-10 | 1/10W 270Ω |
| R 201 | 117-1031-10 | 1/10W 10KΩ |
| R 202 | 117-1031-10 | 1/10W 10KΩ |
| R 203 | 117-2221-10 | 1/10W 2.2KΩ |
| R 204 | 117-3331-10 | 1/10W 33KΩ |
| R 205 | 117-3321-10 | 1/10W 3.3KΩ |
| R 206 | 117-2231-10 | 1/10W 22KΩ |
| R 207 | 117-1031-10 | 1/10W 10KΩ |
| R 208 | 117-1231-10 | 1/10W 12KΩ |
| R 209 | 117-3331-10 | 1/10W 33KΩ |
| R 210 | 111-1021-91 | 1/4WSS 1KΩ |
| R 211 | 117-2211-10 | 1/10W 220Ω |
| R 212 | 117-1041-10 | 1/10W 100KΩ |
| R 213 | 117-2221-10 | 1/10W 2.2KΩ |
| R 214 | 117-1021-10 | 1/10W 1KΩ |
| R 215 | 117-1021-10 | 1/10W 1KΩ |
| R 216 | 117-1021-10 | 1/10W 1KΩ |
| R 217 | 117-1021-10 | 1/10W 1KΩ |
| R 218 | 117-1031-10 | 1/10W 10KΩ |
| R 219 | 117-1031-10 | 1/10W 10KΩ |
| R 220 | 117-1031-10 | 1/10W 10KΩ |
| R 301 | 117-1021-10 | 1/10W 1KΩ |
| R 302 | 117-1031-10 | 1/10W 10KΩ |

| REF No. | PART No. | DESCRIPTION |
|---|---|---|
| R 303 | 117-1231-10 | 1/10W 12KΩ |
| R 304 | 117-1021-10 | 1/10W 1KΩ |
| R 305 | 111-2291-91 | 1/4WSS 2.2Ω |
| R 306 | 111-2291-91 | 1/4WSS 2.2Ω |
| R 307 | 111-2291-91 | 1/4WSS 2.2Ω |
| R 308 | 111-2291-91 | 1/4WSS 2.2Ω |
| R 310 | 111-5611-91 | 1/4WSS 560Ω |
| R 311 | 117-1031-10 | 1/10W 10KΩ |
| R 312 | 117-1031-10 | 1/10W 10KΩ |
| R 313 | 117-1031-10 | 1/10W 10KΩ |
| R 314 | 111-1591-91 | 1/4WSS 1.5Ω |
| R 315 | 111-1591-91 | 1/4WSS 1.5Ω |
| R 316 | 111-1591-91 | 1/4WSS 1.5Ω |
| R 317 | 111-1591-91 | 1/4WSS 1.5Ω |
| R 318 | 111-2221-91 | 1/10W 2.2KΩ |
| R 319 | 117-1031-10 | 1/10W 10KΩ |
| R 320 | 111-1221-91 | 1/4WSS 1.2KΩ |
| R 321 | 117-4721-10 | 1/10W 4.7KΩ |
| R 322 | 111-1091-91 | 1/4WSS 1Ω |
| R 323 | 111-1091-91 | 1/4WSS 1Ω |
| R 324 | 111-2211-91 | 1/4WSS 220Ω |
| R 325 | 111-2211-91 | 1/4WSS 220Ω |
| R 401 | 111-1831-91 | 1/4WSS 18KΩ |
| R 402 | 117-8221-10 | 1/10W 8.2KΩ |
| R 403 | 117-4321-10 | 1/10W 4.3KΩ |
| R 404 | 117-1541-10 | 1/10W 150KΩ |
| R 405 | 117-4721-10 | 1/10W 4.7KΩ |
| R 406 | 117-4731-10 | 1/10W 47KΩ |
| R 407 | 111-2231-91 | 1/4WSS 22KΩ |
| R 408 | 117-4731-10 | 1/10W 47KΩ |
| R 409 | 117-1241-10 | 1/10W 120KΩ |
| R 501 | 117-4731-10 | 1/10W 47KΩ |
| R 502 | 117-6831-10 | 1/10W 68KΩ |
| R 503 | 117-1831-10 | 1/10W 18KΩ |
| R 504 | 117-1231-10 | 1/10W 12KΩ |
| R 505 | 117-3631-10 | 1/10W 36KΩ |
| R 506 | 117-3631-10 | 1/10W 36KΩ |
| R 507 | 117-6821-10 | 1/10W 6.8KΩ |
| R 508 | 117-1031-10 | 1/10W 10KΩ |
| R 510 | 117-6831-10 | 1/10W 68KΩ |
| R 511 | 117-1831-10 | 1/10W 18KΩ |
| R 512 | 117-1231-10 | 1/10W 12KΩ |
| R 513 | 117-3631-10 | 1/10W 36KΩ |
| R 514 | 117-3631-10 | 1/10W 36KΩ |
| R 515 | 117-6821-10 | 1/10W 6.8KΩ |
| R 516 | 117-1031-10 | 1/10W 10KΩ |
| R 517 | 111-3311-91 | 1/4WSS 330Ω |
| R 518 | 117-3311-10 | 1/10W 330Ω |
| R 519 | 117-3311-10 | 1/10W 330Ω |
| R 520 | 117-1031-10 | 1/10W 10KΩ |

| REF No. | PART No. | DESCRIPTION |
|---|---|---|
| R 520 | 117-4731-10 | 1/10W 47KΩ |
| R 521 | 117-1031-10 | 1/10W 10KΩ |
| R 522 | 117-5621-10 | 1/10W 5.6KΩ |
| R 523 | 117-5621-10 | 1/10W 5.6KΩ |
| R 601 | 117-1021-10 | 1/10W 1KΩ |
| R 601 | 117-1031-10 | 1/10W 10KΩ |
| R 602 | 117-1031-10 | 1/10W 10KΩ |
| R 604 | 117-2231-10 | 1/10W 22KΩ |
| R 605 | 117-1531-10 | 1/10W 15KΩ |
| R 606 | 117-1531-10 | 1/10W 15KΩ |
| R 607 | 117-1531-10 | 1/10W 15KΩ |
| R 608 | 111-4711-91 | 1/4WSS 470Ω |
| R 608 | 117-1531-10 | 1/10W 15KΩ |
| R 611 | 117-1531-10 | 1/10W 15KΩ |
| R 612 | 117-1531-10 | 1/10W 15KΩ |
| R 613 | 117-1531-10 | 1/10W 15KΩ |
| R 614 | 117-1531-10 | 1/10W 15KΩ |
| R 616 | 117-4721-10 | 1/10W 4.7KΩ |
| R 617 | 117-4721-10 | 1/10W 4.7KΩ |

| REF No. | PART No. | DESCRIPTION |
|---|---|---|
| R 618 | 117-4721-10 | 1/10W 4.7KΩ |
| R 619 | 117-4721-10 | 1/10W 4.7KΩ |
| R 701 | 117-1021-10 | 1/10W 1KΩ |
| R 702 | 117-1021-10 | 1/10W 1KΩ |
| R 703 | 117-1021-10 | 1/10W 1KΩ |
| R 704 | 117-1021-10 | 1/10W 1KΩ |
| R 705 | 117-1021-10 | 1/10W 1KΩ |
| R 706 | 117-1021-10 | 1/10W 1KΩ |
| R 707 | 117-1021-10 | 1/10W 1KΩ |
| R 708 | 111-1001-91 | 1/4WSS 10Ω |
| R 801 | 117-4731-10 | 1/10W 47KΩ |
| R 802 | 117-2231-10 | 1/10W 22KΩ |
| R 803 | 117-1031-10 | 1/10W 10KΩ |
| R 804 | 117-1031-10 | 1/10W 10KΩ |
| R 805 | 117-5621-10 | 1/10W 5.6KΩ |
| R 806 | 117-1031-10 | 1/10W 10KΩ |
| R 807 | 117-1031-10 | 1/10W 10KΩ |
| R 808 | 117-4721-10 | 1/10W 4.7KΩ |
| R 809 | 117-4721-10 | 1/10W 4.7KΩ |

| REF No. | PART No. | DESCRIPTION |
|---|---|---|
| R 810 | 111-4711-91 | 1/4WSS 470Ω |
| R 811 | 117-4731-10 | 1/10W 47KΩ |
| R 812 | 117-4731-10 | 1/10W 47KΩ |
| R 813 | 117-4731-10 | 1/10W 47KΩ |
| R 814 | 117-1041-10 | 1/10W 100KΩ |
| R 815 | 117-2221-10 | 1/10W 2.2KΩ |
| R 816 | 117-2221-10 | 1/10W 2.2KΩ |
| R 817 | 117-1041-10 | 1/10W 100KΩ |
| R 818 | 117-2221-10 | 1/10W 2.2KΩ |
| R 901 | 117-1021-10 | 1/10W 1KΩ |
| R 902 | 117-1031-10 | 1/10W 10KΩ |
| R 903 | 117-1041-10 | 1/10W 100KΩ |
| SUP101 | 060-0122-10 | DSP-201M-S00B |
| CN 101 | 074-1217-00 | OUTLET SOCKET |
| CN 102 | 174-1115-00 | OUTLET SOCKET |
| CN 105 | 074-1126-10 | OUTLET SOCKET |
| CN 106 | 074-0986-26 | OUTLET SOCKET |
| FUSE | 060-0057-57 | 15A |

## Switch PWB (B1) section

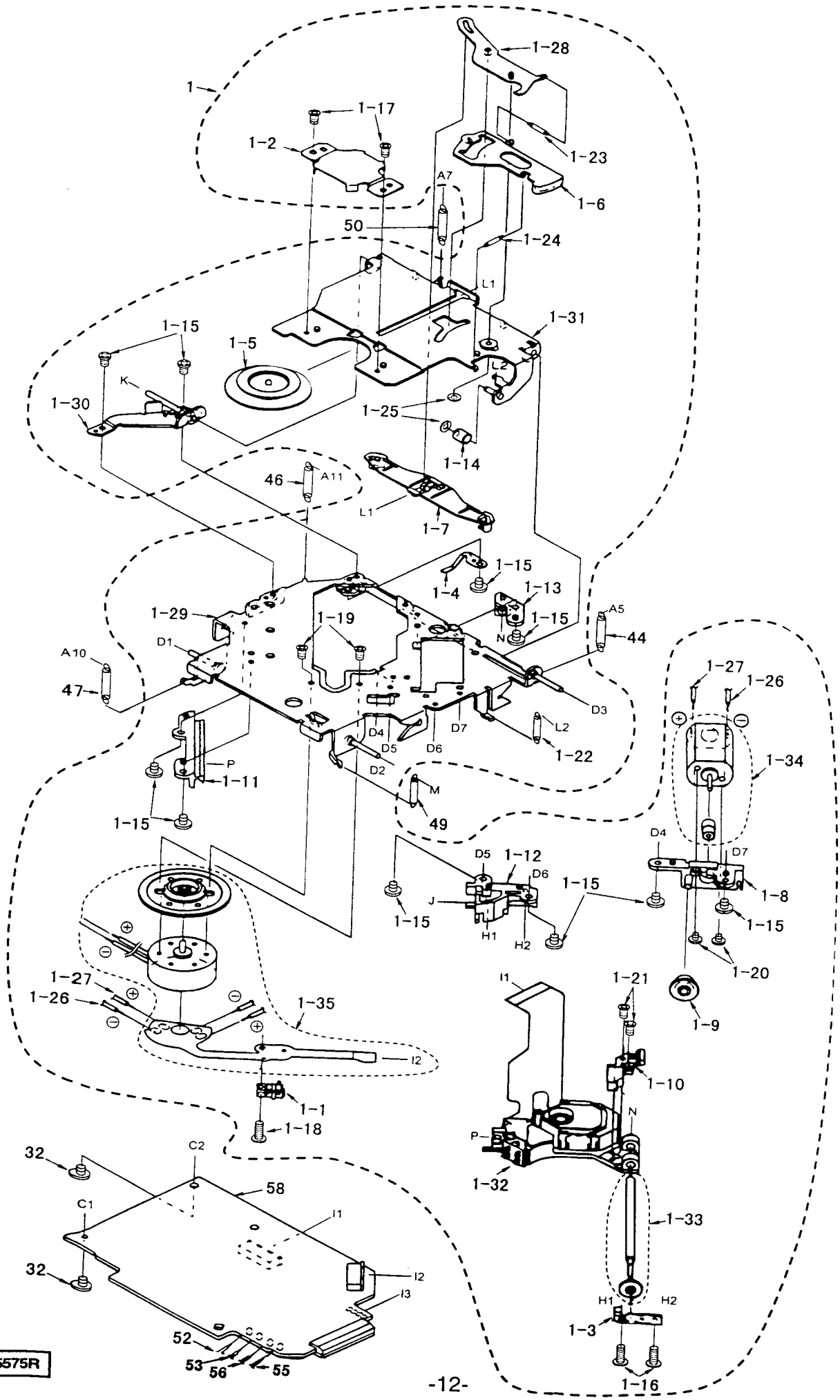
| REF No. | PART No. | DESCRIPTION |
|---|---|---|
| IC 101 | 051-6013-00 | LC75854W |
| C 101 | 178-1022-78 | 50V 1000PF |
| C 102 | 178-4735-79 | 25V 0.047μF |
| C 103 | 178-4735-79 | 25V 0.047μF |
| C 104 | 178-4735-79 | 25V 0.047μF |
| C 105 | 042-0416-51 | 6.3V 10μF |
| R 101 | 117-2221-10 | 1/10W 2.2KΩ |
| R 102 | 117-2221-10 | 1/10W 2.2KΩ |
| R 103 | 117-2221-10 | 1/10W 2.2KΩ |
| R 104 | 117-4731-15 | 1/10W 47KΩ |
| R 105 | 117-1031-10 | 1/10W 10KΩ |
| R 106 | 117-3921-10 | 1/10W 3.9KΩ |
| R 107 | 117-1241-10 | 1/10W 120KΩ |
| R 108 | 117-1011-10 | 1/10W 100Ω |

| REF No. | PART No. | DESCRIPTION |
|---|---|---|
| CN 101 | 076-0615-00 | PLUG |
| PL 101 | 017-0441-00 | 9V 85mA |
| PL 102 | 017-0441-00 | 9V 85mA |
| PL 103 | 017-0410-00 | 14V 40mA |
| PL 104 | 017-0410-00 | 14V 40mA |
| PL 105 | 017-0410-00 | 14V 40mA |
| PL 106 | 017-0410-00 | 14V 40mA |
| S 101 | 013-6001-50 | SKQCAB |
| S 102 | 013-6305-00 | SKQMAH |
| S 103 | 013-6305-00 | SKQMAH |
| S 104 | 013-6305-00 | SKQMAH |
| S 105 | 013-6305-00 | SKQMAH |
| S 106 | 013-6305-00 | SKQMAH |
| S 107 | 013-6305-00 | SKQMAH |

| REF No. | PART No. | DESCRIPTION |
|---|---|---|
| S 108 | 013-6305-00 | SKQMAH |
| S 109 | 013-6001-50 | SKQCAB |
| S 110 | 013-6305-00 | SKQMAH |
| S 111 | 013-6305-00 | SKQMAH |
| S 112 | 013-6305-00 | SKQMAH |
| S 113 | 013-6305-00 | SKQMAH |
| S 114 | 013-6305-00 | SKQMAH |
| S 115 | 013-6305-00 | SKQMAH |
| S 116 | 013-6305-00 | SKQMAH |
| S 117 | 013-6305-00 | SKQMAH |
| S 118 | 013-6001-50 | SKQCAB |
| S 119 | 013-6305-00 | SKQMAH |
| IR 101 | 060-4008-00 | RS-170 |

## ■ EXPLODED VIEW:

CD mechanism section 929-0065-85(BB-CD)

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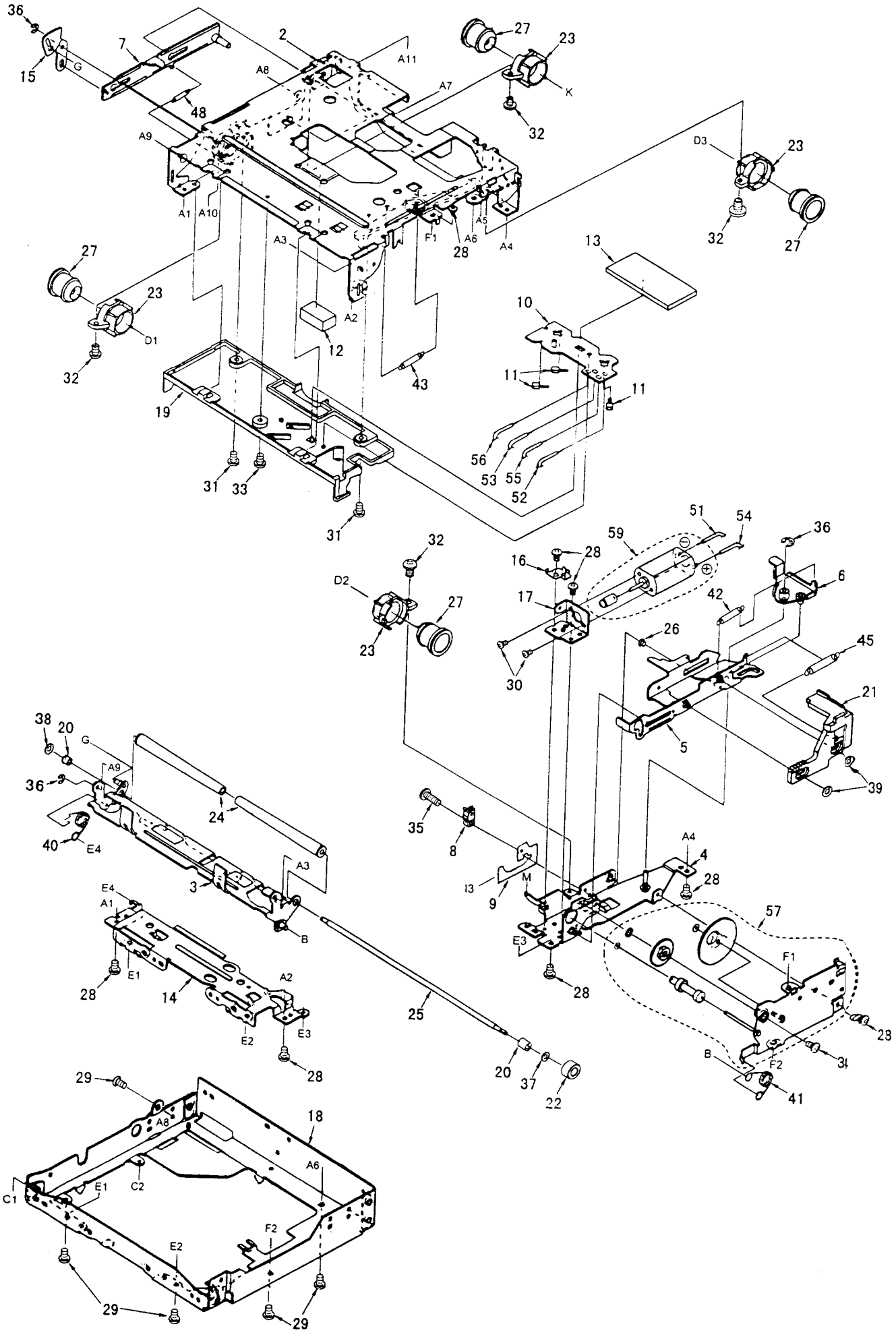
36
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A2
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E3
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E3
28
57
F1
28
B
F2
34
41
29
A8
18
A6
C1
E1
C2
F2
E2
29
29
29

## ■ PARTS LIST:

### CD mechanism section 929-0065-85(BB-CD)

Note) Several different parts of the same reference number are alternative parts. One of those parts is used in the set.

| NO. | PART NO. | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | HBS-433-100 | DRIVE UNIT | 1 |
| 1-1 | 013-7100-00 | LIMIT SWITCH | 1 |
| 1-2 | 620-0198-03 | CLAMPER PLATE | 1 |
| 1-3 | 620-0491-03 | SPRING PLATE | 1 |
| 1-4 | 620-0690-00 | RATTLE PLATE | 1 |
| 1-5 | 621-0205-02 | CLAMPER PLATE | 1 |
| 1-6 | 621-0251-03 | LOCK LINK | 1 |
| 1-7 | 621-0252-03 | DISC STOPPER | 1 |
| 1-8 | 621-0253-01 | MOTOR HOLDER | 1 |
| 1-9 | 621-0255-02 | SECOND GEAR | 1 |
| 1-10 | 621-0257-05 | SCREW HOLDER | 1 |
| 1-11 | 621-0357-03 | PICKUP GUIDE | 1 |
| 1-12 | 621-0358-02 | LS-HOLDER-F | 1 |
| 1-13 | 621-0359-02 | LS-HOLDER-R | 1 |
| 1-14 | 622-1073-02 | CLAMPER ROLLER | 1 |
| 1-15 | 714-2003-81 | MACHINE SCREW (M2X3) | 10 |
| 1-16 | 716-0675-00 | SCREW | 2 |
| 1-17 | 716-1468-00 | SCREW | 2 |
| 1-18 | 716-1555-00 | WAVE SCREW | 1 |
| 1-19 | 716-1733-00 | SCREW | 2 |
| 1-20 | 732-2004-11 | SEMS SCREW | 2 |
| 1-21 | 739-1735-17 | PRECISION SCREW | 2 |
| 1-22 | 750-3097-03 | CLAMPER SPRING | 1 |
| 1-23 | 750-3098-00 | L-LINK SPRING | 1 |
| 1-24 | 750-3099-00 | ES-SPRING | 1 |
| 1-25 | 746-0761-00 | WASHER | 2 |
| 1-26 | 816-2372-00 | VINYL COAT WIRE (BLU) | 1 |
| 1-27 | 816-2373-00 | VINYL COAT WIRE (WHT) | 1 |
| 1-28 | 966-0314-01 | STOP LINK ASSY | 1 |
| 1-29 | 966-0447-04 | DR-PLATE ASSY | 1 |
| 1-30 | 966-0448-01 | SIDE PLATE ASSY | 1 |
| 1-31 | 966-0449-02 | CLAMP LINK ASSY | 1 |
| 1-32 | 969-0005-10 | PICKUP UNIT ASSY | 1 |
| 1-33 | HBS-432-100 | LS-GEAR ASSY | 1 |
| 1-34 | SMA-146-100 | MOTOR ASSY (SLED) | 1 |
| 1-35 | SMA-151-100 | MOTOR ASSY (SPINDLE) | 1 |
| 2 | 966-0308-10 | CHASSIS ASSY | 1 |
| 3 | 966-0309-05 | L-DISC-G-ASSY | 1 |
| 4 | 966-0310-06 | SFT-P-CH-ASSY | 1 |
| 5 | 966-0312-06 | SHIFT-P-ASSY | 1 |
| 6 | 966-0358-01 | DRIVE-L-PL-ASSY | 1 |
| 7 | 966-0359-03 | SIDE-L-PL-ASSY | 1 |
| 8 | 013-3879-01 | CHUCKING SWITCH | 1 |
| 9 | 039-0586-01 | CHUCKING SW PWB (WITHOUT COMPONENT) | 1 |
| 10 | 039-0588-01 | SENSOR PWB (WITHOUT COMPONENT) | 1 |
| 11 | 060-0252-01 | PHOTO TR (PT4850F) | 3 |
| 12 | 345-7513-01 | CLAMPER SHEET | 1 |

| NO. | PART NO. | DESCRIPTION | QTY |
|---|---|---|---|
| 13 | 345-7514-00 | S-PWB-SHEET | 1 |
| 14 | 620-0485-04 | FRONT PLATE | 1 |
| 15 | 620-0488-01 | S-L-LINK PLATE | 1 |
| 16 | 620-0489-01 | MOTOR PLATE | 1 |
| 17 | 620-0492-01 | MOTOR BRACKET | 1 |
| 18 | 620-0798-80 | MECHA BRACKET | 1 |
| 19 | 621-0402-01 | U-DISC GUIDE | 1 |
| 20 | 621-0243-02 | ROLLER SLEEVE | 2 |
| 21 | 621-0248-07 | RACK GEAR | 1 |
| 22 | 621-0249-02 | ROLLER GEAR | 1 |
| 23 | 621-0250-01 | DAMPER HOLDER | 4 |
| 24 | 621-0258-03 | LOADING ROLLER | 2 |
| 25 | 622-1072-05 | ROLLER SHAFT | 1 |
| 26 | 622-1219-01 | SHIFT ROLLER | 1 |
| 27 | 629-0058-00 | DAMPER-DL | 4 |
| 28 | 714-2003-81 | MACHINE SCREW (M2X3) | 8 |
| 29 | 714-2603-81 | MACHINE SCREW (M2.6X3) | 5 |
| 30 | 716-1468-00 | SCREW | 2 |
| 31 | 716-1507-00 | SCREW | 2 |
| 32 | 716-1670-00 | SCREW | 6 |
| 33 | 716-1677-00 | SCREW | 1 |
| 34 | 716-1704-00 | SCREW | 1 |
| 35 | 716-1742-00 | SCREW | 1 |
| 36 | 743-1500-10 | E-RING | 3 |
| 37 | 746-0712-03 | WASHER | 1 |
| 38 | 746-0762-00 | WASHER | 1 |
| 39 | 746-0877-02 | WASHER | 2 |
| 40 | 750-3090-02 | RO-SPRING-L | 1 |
| 41 | 750-3091-03 | RO-SPRING-R | 1 |
| 42 | 750-3092-03 | SHIFT SPRING | 1 |
| 43 | 750-3094-00 | S-ARM SPRING | 1 |
| 44 | 750-3096-01 | DR-SPRING-R | 1 |
| 45 | 750-3098-00 | L-LINK SPRING | 1 |
| 46 | 750-3164-00 | DR-SPRING-LR | 1 |
| 47 | 750-3188-00 | DR-SP-F-B | 1 |
| 48 | 750-3189-00 | SIDE-L-SPRING | 1 |
| 49 | 750-3201-00 | DR-SPRING-F-R | 1 |
| 50 | 750-3202-00 | CENTER SPRING-B | 1 |
| 51 | 800-4904-60 | VINYL COAT WIRE (BLK) | 1 |
| 52 | 800-4910-60 | VINYL COAT WIRE (BLK) | 1 |
| 53 | 801-4910-60 | VINYL COAT WIRE (BRN) | 1 |
| 54 | 802-4904-60 | VINYL COAT WIRE (RED) | 1 |
| 55 | 802-4910-60 | VINYL COAT WIRE (RED) | 1 |
| 56 | 804-4910-60 | VINYL COAT WIRE (YEL) | 1 |
| 57 | HBS-430-100 | GEAR-PLATE-ASSY | 1 |
| 58 | HBS-461-100 | PWB ASSY (WITH COMPONENT) | 1 |
| 59 | SMA-147-100 | MOTOR ASSY (LOADING) | 1 |

## ■ ELECTRICAL PARTS LIST:

### CD mechanism section (B3)

Note)Several different parts of the same reference number are alternative parts. One of those parts is used in the set.

| REF No. | PART No. | DESCRIPTION |
|---|---|---|
| C10 | 178-1032-78 | 0.01 μ F |
| C11 | 182-1063-32 | 16V 10 μ F |
| C12 | 178-1042-78 | 0.1 μ F |
| C13 | 182-1073-12 | 6.3V 100 μ F |
| C14 | 178-1032-78 | 0.01 μ F |
| C15 | 182-2263-12 | 6.3V 22 μ F |
| C16 | 178-1032-78 | 0.01 μ F |
| C17 | 178-1042-78 | 0.1 μ F |
| C18 | 178-1042-78 | 0.1 μ F |
| C19 | 176-1501-00 | 15pF CH |
| C20 | 176-1042-78 | 0.1 μ F |
| C21 | 182-2263-12 | 6.3V 22 μ F |
| C22 | 176-2096-00 | 2pF CJ |
| C23 | 178-1042-78 | 0.1 μ F |
| C24 | 178-1022-78 | 1000pF |
| C25 | 176-1007-00 | 10pF CH |
| C26 | 176-1007-00 | 10pF CH |
| C27 | 182-1073-12 | 6.3V 100 μ F |
| C28 | 178-1042-78 | 0.1 μ F |
| C29 | 182-1073-12 | 6.3V 100 μ F |
| C30 | 178-1042-78 | |
| C33 | 178-1042-78 | 0.1 μ F |
| C34 | 178-2212-78 | 200pF |
| C35 | 178-1032-78 | 0.01 μ F |

| REF No. | PART No. | DESCRIPTION |
|---|---|---|
| C36 | 178-4732-78 | 0.047 μ F |
| C37 | 178-1522-78 | 1500pF |
| C38 | 178-1032-78 | 0.01 μ F |
| C39 | 042-0230-00 | 35V 0.47 μ F |
| C40 | 178-1032-78 | 0.01 μ F |
| C41 | 178-1042-78 | 0.1 μ F |
| C42 | 178-2222-78 | 2200pF |
| C100 | 182-4763-12 | 6.3V 47 μ F |
| C101 | 182-4763-12 | 6.3V 47 μ F |
| C102 | 178-1032-78 | 0.01 μ F |
| C103 | 182-1073-32 | 16V 100 μ F |
| D1 | 001-0563-00 | GL380 |
| D2 | 001-0563-00 | GL380 |
| D3 | 001-0563-00 | GL380 |
| IC1 | 051-1014-10 | TA7291S |
| IC2 | 051-6015-05 | BA6392FP |
| IC3 | 051-6314-05 | TC9404FN |
| IC4 | 051-1971-00 | CXA1610M |
| IC5 | 051-6313-00 | CXD2545Q |
| L1 | 010-2155-03 | 10 μ H |
| Q1 | 101-1237-00 | 2SB1237 |
| R10 | 111-2711-91 | 1/4WS 270 Ω |
| R11 | 117-8231-10 | 1/10W 82K Ω |
| R12 | 117-1031-10 | 1/10W 10K Ω |

| REF No. | PART No. | DESCRIPTION |
|---|---|---|
| R14 | 117-5631-10 | 1/10W 56K Ω |
| R15 | 117-1021-10 | 1/10W 1K Ω |
| R16 | 117-2211-10 | 1/10W 220 Ω |
| R17 | 117-2211-10 | 1/10W 220 Ω |
| R18 | 117-1031-10 | 1/10W 10K Ω |
| R19 | 117-2231-10 | 1/10W 22K Ω |
| R20 | 117-1831-10 | 1/10W 18K Ω |
| R21 | 117-1031-10 | 1/10W 10K Ω |
| R22 | 117-4711-10 | 1/10W 470 Ω |
| R23 | 117-1011-10 | 1/10W 100 Ω |
| R24 | 117-1021-10 | 1/10W 1K Ω |
| R25 | 117-1001-10 | 1/10W 10 Ω |
| R26 | 117-3331-10 | 1/10W 33K Ω |
| R27 | 117-3631-10 | 1/10W 36K Ω |
| R28 | 117-1241-10 | 1/10W 120K Ω |
| R29 | 117-3631-10 | 1/10W 36K Ω |
| R30 | 117-1041-10 | 1/10W 100K Ω |
| R31 | 117-1031-10 | 1/10W 10K Ω |
| R32 | 117-6821-10 | 1/10W 6.8K Ω |
| R33 | 117-3321-10 | 1/10W 3.3K Ω |
| R34 | 117-1051-10 | 1/10W 1M Ω |
| R35 | 117-1041-10 | 1/10W 100K Ω |
| R36 | 117-1031-10 | 1/10W 10K Ω |
| X1 | 060-1014-00 | 16.9344MHz |

### Limit switch PWB section (B4)

| REF No. | PART No. | DESCRIPTION |
|---|---|---|
| M1 | SMA-151-100 | SPINDLE |

| REF No. | PART No. | DESCRIPTION |
|---|---|---|
| M2 | SMA-146-100 | SLED |

| REF No. | PART No. | DESCRIPTION |
|---|---|---|
| S1 | 013-7100-00 | LIMIT |

### Chucking switch PWB section (B5)

| REF No. | PART No. | DESCRIPTION |
|---|---|---|
| M3 | SMA-147-100 | LOADING |

| REF No. | PART No. | DESCRIPTION |
|---|---|---|
| S2 | 013-3879-01 | CHUCKING |

### Sensor PWB section (B6)

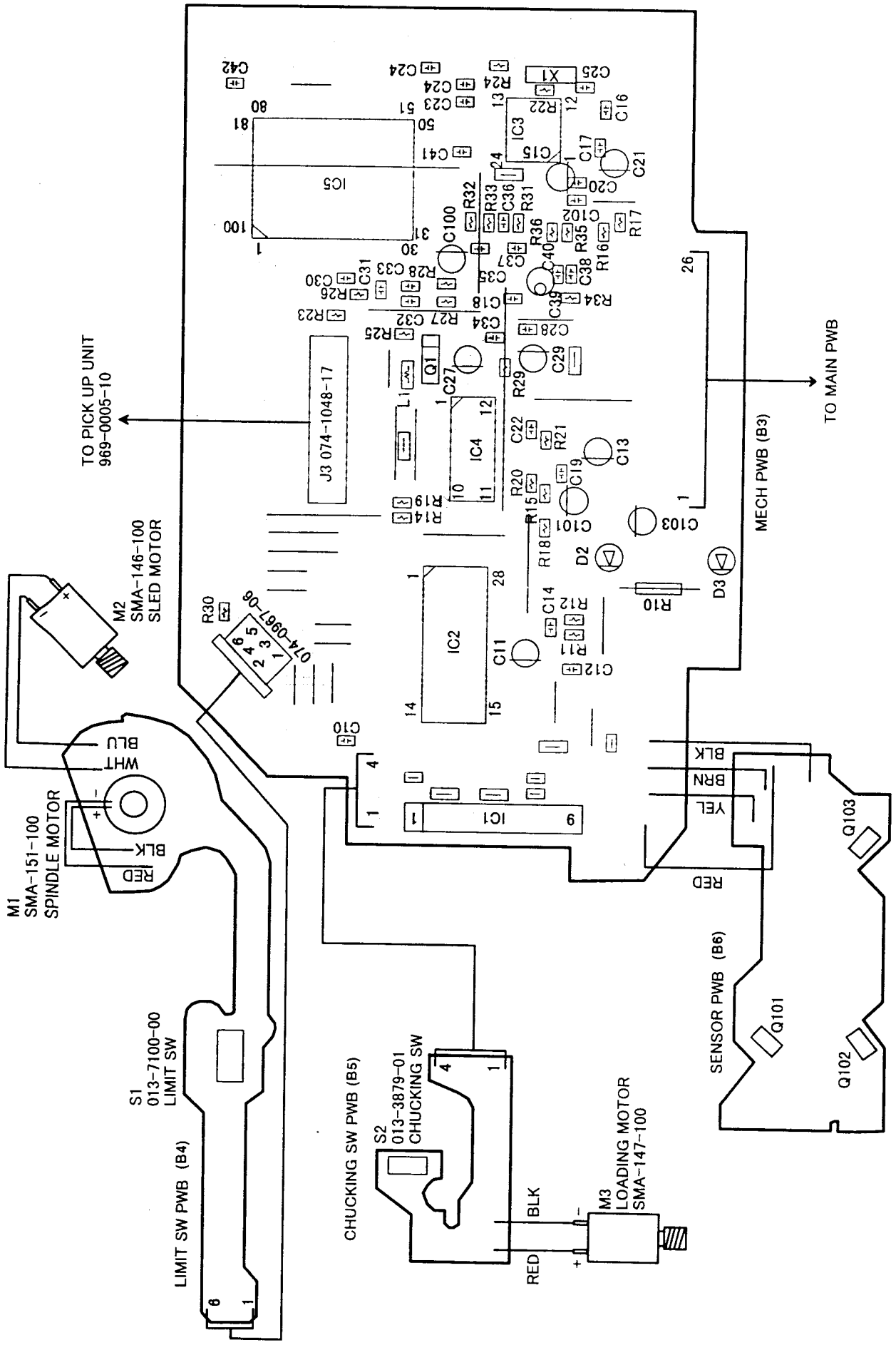
| REF No. | PART No. | DESCRIPTION |
|---|---|---|
| Q101 | 060-0252-01 | PT4850F |

| REF No. | PART No. | DESCRIPTION |
|---|---|---|
| Q102 | 060-0252-01 | PT4850F |

| REF No. | PART No. | DESCRIPTION |
|---|---|---|
| Q103 | 060-0252-01 | PT4850F |

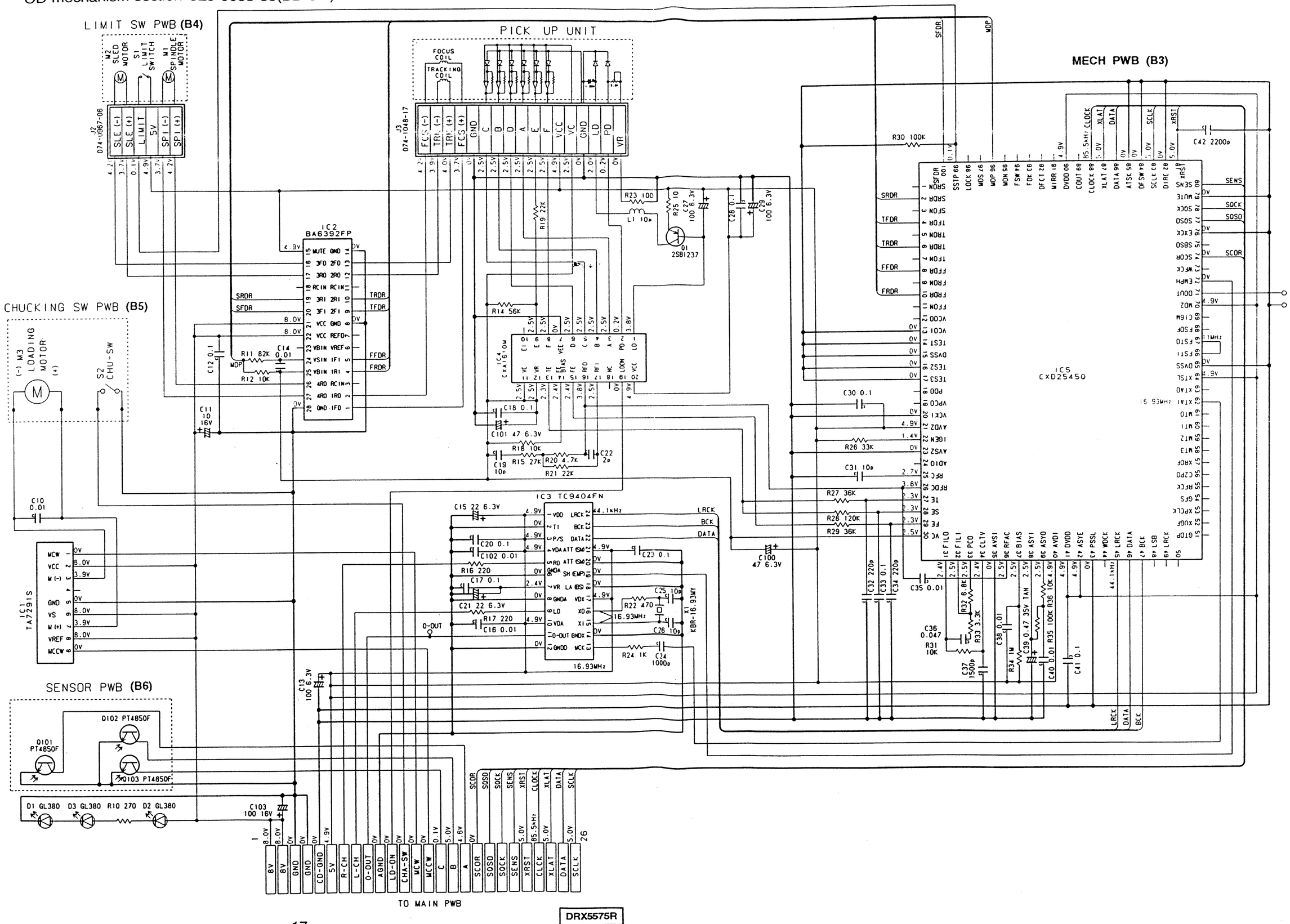
## ■ PRINTED WIRING BOARD:

CD mechanism section 929-0065-85(BB-CD)



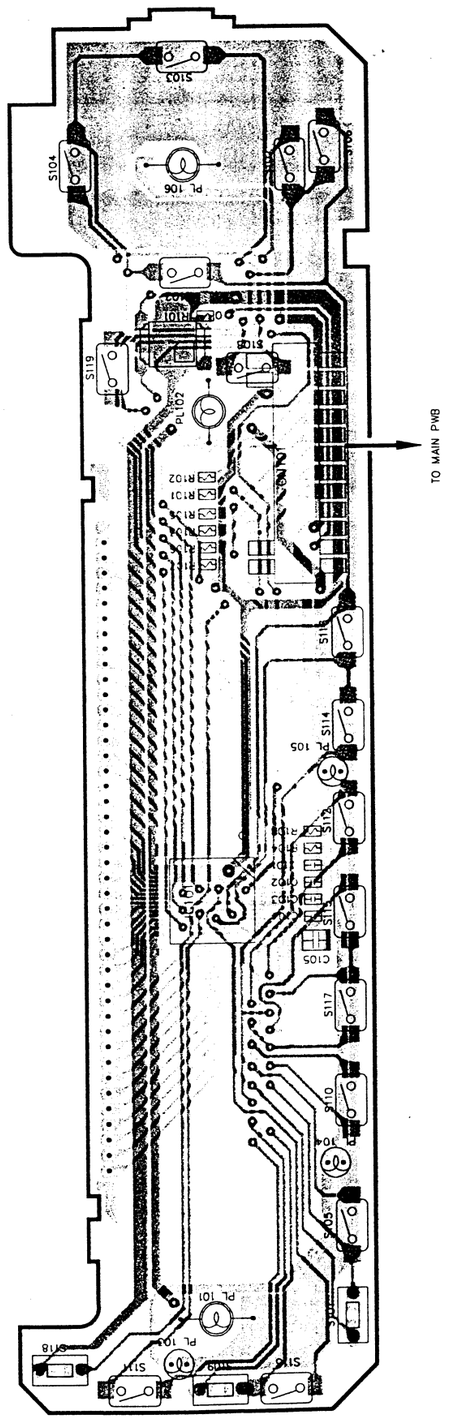
## ■ CIRCUIT DIAGRAM :

CD mechanism section 929-0065-85(BB-CD)



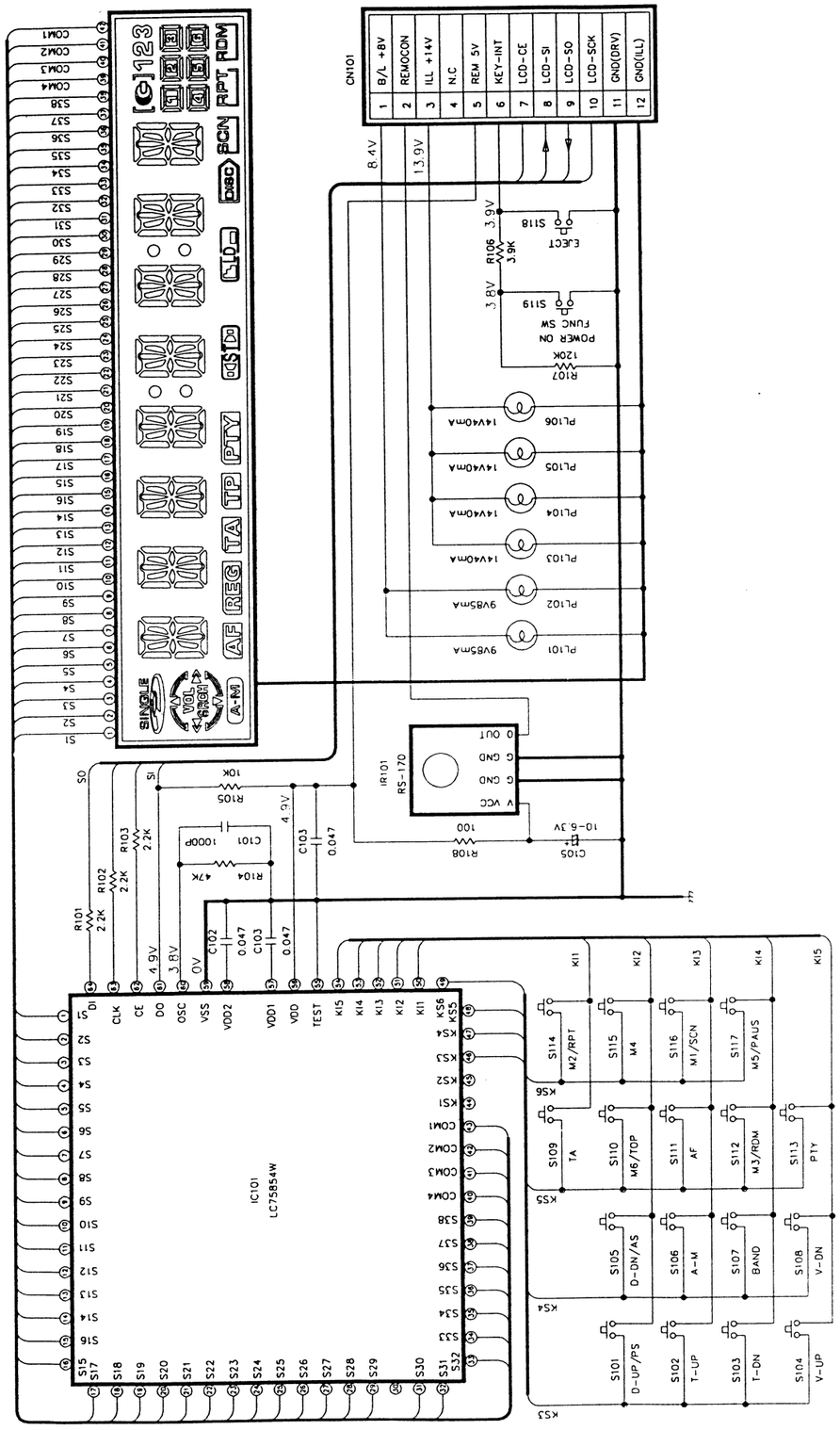
## ■ PRINTED WIRING BOARD:

Switch PWB (B1) section




## ■ CIRCUIT DIAGRAM:

Switch PWB (B1) section



## ■ PRINTED WIRING BOARD:

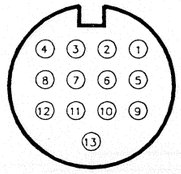
Main PWB (B2) section

C-BUS LINE

| CASE | SHIELD |
|---|---|
| 1 | SI/SO |
| 2 | SCK |
| 3 | ----- |
| 4 | SRQ |
| 5 | +B REM |
| 6 | S-GND |

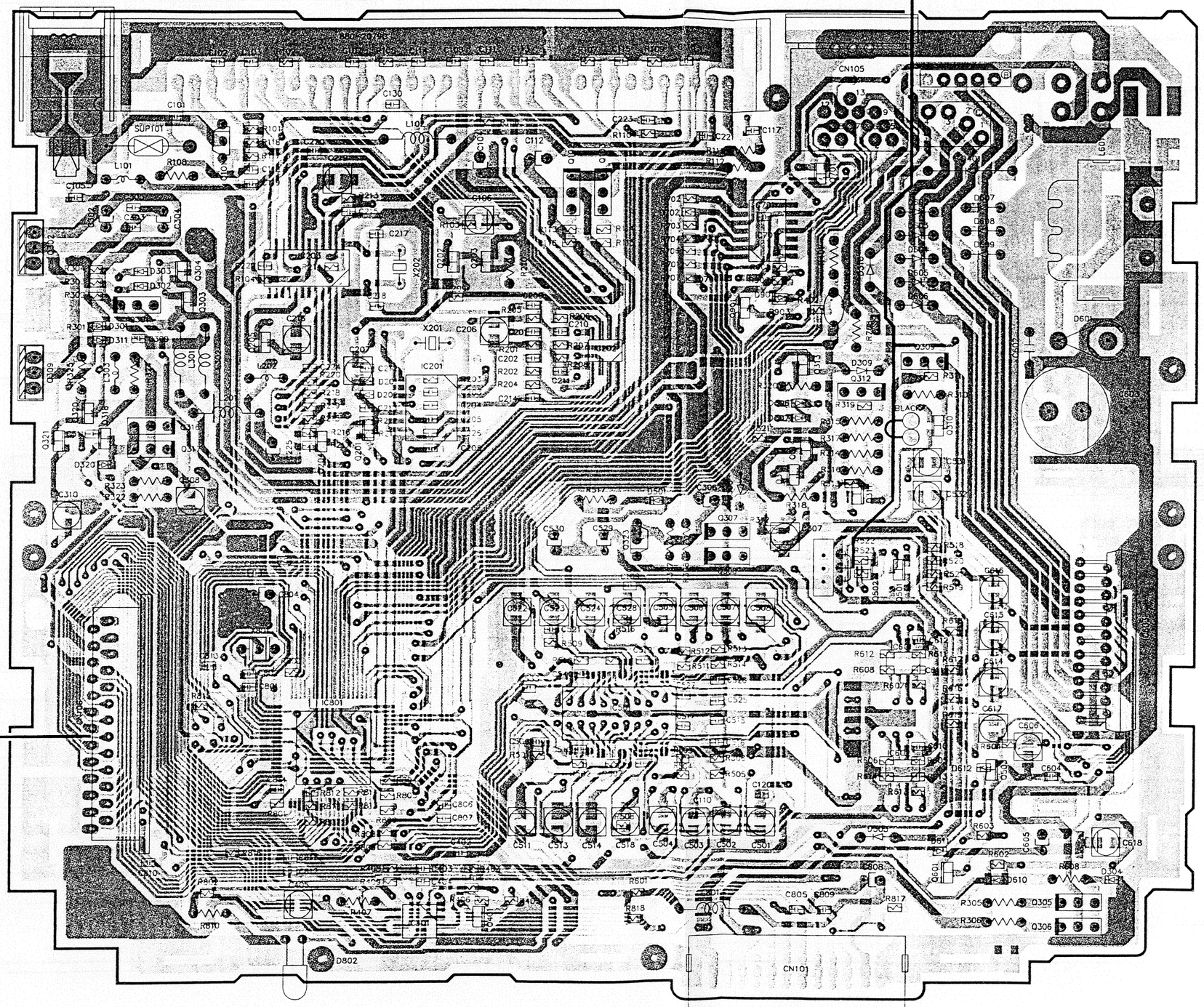
C-BUS LINE

| | |
|---|---|
| 7 | CD-L-IN |
| 8 | CD-R-IN |
| 9 | ----- |
| 10 | B/U |
| 11 | ACC CONT |
| 12 | GND |
| 13 | ----- |




855-5426-80
RCA LINE OUT

092-9000-41

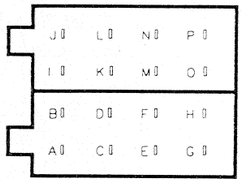



Ⓒ TO MAIN PWB

Ⓑ TO MAIN PWB

TO CD MECHANISM

TO SW PWB




CONNECTOR

| NO. | NOTE |
|---|---|
| A | ----- |
| B | PHONE INT |
| C | BACK UP |
| D | ----- |
| E | ----- |
| F | AUTO ANTENNA |
| G | GROUND |
| H | ACC |
| I | REAR RIGHT SP- |
| J | REAR RIGHT SP+ |
| K | FRONT RIGHT SP- |
| L | FRONT RIGHT SP+ |
| M | FRONT LEFT SP- |
| N | FRONT LEFT SP+ |
| O | REAR LEFT SP- |
| P | REAR LEFT SP+ |

## ■ CIRCUIT DIAGRAM:

Main PWB (B2) section